

**SPECIFICATION AMENDMENTS:**

The specification including the abstract of the disclosure has been rewritten in response to the Examiner's objections. Please replace the specification with the substitute copy enclosed herewith. A clean version and a marked up version of the specification are submitted herewith per 37 C.F.R. § 1.125.

**CLAIM AMENDMENTS:**

Please rewrite the pending claims as follows:

1. (Previously Amended) A method for measuring the flow speed of a liquid molten metal in an ingot mould equipped with a sliding field electromagnetic brake, comprising:

supplying the electromagnetic brake with electrical power from at least one constant power source, wherein one of current and voltage of the constant power source's output is held constant;

measuring the other of the current and voltage of the constant power source; and

extracting the flow speed of the liquid molten metal from variations in the measurement.

2. (Currently Amended) The method of claim 1, wherein the electromagnetic brake has ~~having~~ at least one inductor which includes two packs of several conductors in a vertical direction, the method further comprising: applying, for each conductor, the following relation:

$$\text{grad}V = -i(\omega - vk)A - \rho j,$$

where  $\omega$  represents the A.C. excitation pulse of the sliding field,  $v$  represents the metal speed,  $k$  represents the wave number of the inductive sliding magnetic field,  $A$  represents the vector